

A SURFACE MOUNT SOLDER METHOD AND APPARATUS  
FOR DECOUPLING CAPACITANCE AND  
PROCESS OF MAKING

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ABSTRACT OF THE DISCLOSURE

10 A system to package high performance microelectronic devices, such as  
processors, responds to component transients. In one embodiment, the system  
includes a decoupling capacitor that is disposed between a Vcc electrical bump and  
a Vss electrical bump. The decoupling capacitor has Vcc and Vss terminals. The  
Vcc and Vss terminals share electrical pads with the Vcc electrical bump and the  
Vss electrical bump. A simple current loop is created that improves the power  
delivery for the system.

"Express Mail" mailing label number: EV370238841US

Date of Deposit: February 9, 2004

This paper or fee is being deposited on the date indicated above with  
the United States Postal Service pursuant to 37 CFR 1.10, and is  
addressed to the Commissioner for Patents, Mail Stop Patent  
Application, P.O. Box 1450, Alexandria, VA 22313-1450.